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(19) **United States**(12) **Patent Application Publication**  
**Zirwas et al.**(10) **Pub. No.: US 2015/0009933 A1**(43) **Pub. Date: Jan. 8, 2015**(54) **CONFIGURING A COMMUNICATION  
CHANNEL BETWEEN A BASE STATION AND  
A USER EQUIPMENT**(52) **U.S. Cl.**CPC ..... *H04B 7/024* (2013.01); *H04B 15/00*  
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**ABSTRACT**(73) Assignee: **Nokia Solutions and Networks Oy**,  
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A method is provided wherein a base station and at least one further base station are assigned to a cooperation area, wherein a user equipment is served by the base station. The method comprises determining, by the base station, whether all user data of the user equipment being required for a precoding coordinated multipoint transmission is received by each of the base station and the at least one further base station, selecting a transmission mode, wherein the transmission mode is based, if all user data of the user equipment being required for a precoding coordinated multipoint transmission is received by each of the base station and the at least one further base station, on precoding coordinated multipoint transmission, or else, on an interference reducing transmission, and configuring, by the base station, the communication channel between the base station and the user equipment based on the selected transmission mode.

